

# Beamline U10B Configuration Control

This document provides guidelines for understanding typical beamline use by a general user and activity not appropriate for a general user. Please consult beamline personnel about any activity not specifically covered in this document.

## Typical general user beamline use

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### ***Beamline***

- V2 valve and photon mask buttons on beamline control panel

### ***Instrument***

- All microscope controls for (1) top, bottom, and aperture illuminators, (2) stage positioning, (3) condenser focus and translation
- Adjusting ratiometer toggle switch between “signal” and “bypass”.
- Powering up/down of the microscope and/or FTIR spectrometer

### ***Computer***

- *U10B beamline computer*: collecting, viewing, analyzing, and transferring data; checking beamtime schedule, modifying and submitting SAF forms; limited internet activity related to experiments
- *U10B data analysis computer*: Viewing, organizing, analyzing, transferring data; checking email; limited internet activity related to experiments.

## Activities Requiring Beamline Personnel Intervention or Permission

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### ***Beamline***

- Any adjustments to steering mirrors after collimating box

### ***Instrument***

- Removing objectives, turret, stage, condenser, eyepiece, dichroic mirror, camera, or any other part of the microscope that requires the use of tools.
- Installing and/or aligning ATR or Grazing Incidence objectives
- Use of customized sample holders
- Use of fluorescence accessory or microscope polarizer
- Changing of beamsplitter in FTIR spectrometer

## Forbidden Activities

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- Modification of any beamline or instrument electronics
- Venting any part of beamline under vacuum
- Cleaning of any instrument optics, including objectives
- Any activities involving opening the lid of the FTIR spectrometer
- Any activity requiring the removal of the microscope outer case

### ***Computer***

- Installing/removing any programs on the U10B beamline or data analysis computers